

Modul Jawaban Koeliah

2020



Akuntansi
Biaya

UAS Semester Ganjil
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Problem 1

Lalala Inc. buys 12.000 gallon of full-cream milk for \$550.000 to produce yoghurts that are classified to yoghurt A, yoghurt B, and yoghurt C and each of those yoghurts have different selling price. The company can produce 50.000 cup of yoghurt A, 90.000 cup of yoghurt B, and 45.000 cup of yoghurt C. In July, Lalala Inc., which had no beginning inventory, sold 25.000 cup of yoghurt A, 85.000 cup of yoghurt B, and 40.000 cup of yoghurt C. The company sells yoghurt A for \$8 per cup and yoghurt B for \$9 per cup. Lalala Inc. decided to treat yoghurt C as a byproduct and sells it for \$2

Required:

1. Assume that Lalala Inc. allocates the joint costs to yoghurt A and yoghurt B using the sales value at splitoff method and accounts for the byproduct using sales method. What is the inventory cost for each product and gross margin for Lalala Inc.?
2. Show journal entries needed at the time of production and at the time of sale

Problem 2

Jimin and Taehyung are roommates in Kosan. They are both considering to subscribing to an Internet provider that has the following packages available because their classes is in online and they also need entertainment to cope with quarantine.

PACKAGE	PER MONTH (\$)
A. Internet Access	25
B. TV Cable Access	10
C. Internet and TV Cable Access	30

Jimin find that tv cable shows are boring so he prefer to watch video on youtube which consume more internet. Taehyung on the other side prefers to spend his free time watching tv cable shows. They both agree that the purchase of the \$30 total package is a “win-win” situation.

Required:

Allocate the \$30 between Jimin and Taehyung using

- (a) the stand-alone cost-allocation method,
- (b) the incremental cost-allocation method, and
- (c) the Shapley

Problem 3

Sandbox Care provides lawn care and landscaping services to commercial clients. Sandbox Care uses activity-based costing to bid on jobs and to evaluate their profitability. Sandbox Care reports the following budgeted annual costs:

Wages and Salaries	\$360.000
Depreciation	\$75.000
Supplies	\$120.000
Other overhead	<u>\$280.000</u>
Total overhead costs	\$835.000

Chulsan, controller of Sandbox Care, has established four activity cost pools and the following budgeted activity for each cost pool:

<u>Activity Cost Pool</u>	<u>Activity Measure</u>	<u>Total Activity for the Year</u>
Estimating jobs	Number of job estimates	250 estimates
Lawn care	Number of direct labor-hours	10.000 direct labor-hours
Landscape design	Number of design hours	500 design hours
Other	Facility-sustaining costs that are not allocated to jobs	Not applicable

Chulsan also estimates that Sandbox Care's costs are distributed to the activity-cost pools as follows:

	<u>Estimating Jobs</u>	<u>Lawn Care</u>	<u>Landscap e Design</u>	<u>Other</u>	<u>Total</u>
Wages and salaries	5%	70%	15%	10%	100%
Depreciation	10%	65%	10%	15%	100%
Supplies	0%	100%	0%	0%	100%
Other overhead	15%	50%	20%	15%	100%

Injae Office Park, a new development in a nearby community, has contacted Sandbox Care to provide an estimate on landscape design and annual lawn maintenance. The job is estimated to require a single landscape design requiring 40 design hours in total and 250 direct labor-hours annually.

Required:

1. Allocate Sandbox Care's costs to the activity-cost pools and determine the activity rate for each pool
2. Estimate total cost for Injae Office Park job.
3. Sandbox Care does 30 landscape designs for its customers each year. Estimate the total cost for Injae Office Park job if Sandbox Care allocated costs of the Landscape Design activity based on the number of landscape designs rather than the number of landscape design-hours.

Problem 4

XYZ Manufacturing has developed value-added standards for its activities. The value-added output levels for each of the activities, their actual levels achieved, and the standard price are as follows

<u>Activity</u>	<u>Activity Driver</u>	<u>SQ</u>	<u>AQ</u>	<u>SP</u>
Using lumber	Board feet	20.000	30.000	\$10
Purchasing	Purchase orders	900	1.000	\$50
Inspection	Inspection hours	0	4.000	\$12

1. Assume that continuous improvement efforts reduce the demand for inspection by 20% during the year. Calculate the activity volume and unused capacity variances for the inspection activity.
2. Prepare a cost report that details value-added and non-value-added costs.

Problem 5A

Dalmi Company manufactures specialty unique desk and is considering to implement a JIT production system in their factory. Based on the consultant appraisal there are several estimated costs that will be reduced from JIT system production. The first information is the annual additional tooling costs to implement the JIT system would be \$300,000. Average inventory would decline by 50% from the current level of \$2,000,000. Additional cost to reduce are insurance, space, materials-handling, and setup costs, which currently total \$500,000 annually, would decline by 25%. The emphasis on quality inherent in JIT production would reduce rework cost by 30%. Dalmi currently incurs \$400,000 in annual rework costs. Improved product quality under JIT production would enable Dalmi to raise the additional price of its

product by \$20 per unit. Dalmi usually sells 60,000 units each year. Dalmi's required rate of return on inventory investment is 12% per year.

Required:

You, as the the assistant manager for production unit in Dalmi Company, are required to **Calculate the net benefit or cost to Dalmi Company if it adopts JIT production at the plant!**

Problem 5B

Aeris Corporation produces Christmas merchandise. It uses JIT production system, which lead to backflush costing system with three trigger points:

- Purchase of direct materials and incurring of conversion costs
- Completion of good finished units of product
- Sale of finished goods

There are no beginning inventories of materials or finished goods and no beginning or ending work-in process inventories. Aeris Corporation produced 30,000 finished units in December 2020 and sold 29.500 units. The following data are for July 2020:

Direct Material Purchased	US\$3.000.000
Direct Material Used	US\$2.800.000
Conversion costs incurred	US\$700.000
Conversion cost allocated	US\$850.000

You are required to:

1. Prepare the summary of journal entries for December (with disposing of under- or over-allocated conversion costs to COGS)
2. If there are only two trigger points: material purchase and sale of finished goods, prepare summary journal entries for December. (without disposing of under- or over-allocated conversion costs to COGS)
3. If there are only two trigger points: completion of finished goods and sale of finished goods, prepare summary journal entries for December. (without disposing of under- or over-allocated conversion costs to COGS)
4. If there are only one trigger points: sale of finished goods, prepare summary journal entries for December (without disposing of under- or over-allocated conversion costs to COGS)